

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: AMBER-06797

Serial No.: 10/049,332

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)

(37 CFR § 1.98(b))

Filing Date: 06/21/02

Group Art Unit: 1645

U.S. PATENT DOCUMENTS

Examiner Initials	Class No.	Serial Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
/JK/	1	4,683,195	7/28/87	Mullis <i>et al.</i>	435	6	2/07/86
	2	4,774,339	9/27/88	Haugland <i>et al.</i>	548	405	8/10/87
	3	5,069,769	12/03/91	Fujimiya <i>et al.</i>	204	182.8	6/06/90
	4	5,091,328	2/25/92	Miller	437	52	11/21/89
	5	5,137,609	8/11/92	Manian <i>et al.</i>	204	180.1	1/31/92
	6	5,187,288	2/16/93	Kang <i>et al.</i>	548	110	5/22/91
	7	5,190,632	3/02/93	Fujimiya <i>et al.</i>	204	299 R	3/20/92
	8	5,248,782	9/28/93	Haugland <i>et al.</i>	548	110	12/18/90
	9	5,274,113	12/28/93	Kang <i>et al.</i>	548	405	11/01/91
	10	5,433,896	7/18/95	Kang <i>et al.</i>	252	700	5/20/94
	11	5,451,663	9/19/95	Kang <i>et al.</i>	530	367	4/08/93
	12	5,643,722	7/01/97	Rothschild <i>et al.</i>	435	6	5/11/94
	13	5,783,397	7/21/98	Hughes <i>et al.</i>	435	7.1	6/12/96
	14	5,654,150	9/05/97	King <i>et al.</i>	435	6	6/07/95
	15	5,614,386	3/25/97	Metzker <i>et al.</i>	435	91.1	6/23/95

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
/JK/	16	WO90/05785	5/31/90	PCT			x	

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

/JK/	17	Allen <i>et al.</i> , <i>Gel Electrophoresis and Isoelectric Focusing of Proteins</i> , Walter de Gruyter, New York 1984, pp. 17-62						
	18	Antibodies: <i>A Laboratory Manual</i> (E. Harlow and D. Lane, editors, Cold Spring Harbor Laboratory Press, 1988, pp. 53,72-73)						
	19	Bain <i>et al.</i> , "Site-Specific Incorporation of Nonnatural Residues during In Vitro Protein Biosynthesis with Semisynthetic Aminoacyl-tRNAs," <i>Biochemistry</i> 30:5411-21 (1991)						
	20	Bruce and Uhlenbeck, "Specific Interaction of Anticodon Loop Residues with Yeast Phenylalanyl-tRNA Synthetase," <i>Biochemistry</i> 21:3921-3926 (1982)						
	21	Current Protocol in Molecular Biology, "Synthesizing Proteins In Vitro by Transcription and Translation of Cloned Genes," (F.M. Ausubel <i>et al.</i> editors, Wiley Interscience, 1993), pp.10.76-10.77						
	22	Da Poian, A. T., <i>et al.</i> , "Kinetics of intracellular viral disassembly and processing probed by Bodipy fluorescence dequenching," <i>J Virol Methods</i> 70(1):45-58 (1998)						
	23	DiCesare <i>et al.</i> , "A High-Sensitivity Electrochemiluminescence-Based Detection System for Automated PCR Product Quantitation," <i>BioTechniques</i> 15:152-59 (1993)						
	24	Doty <i>et al.</i> , "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Physical Chemicals Studies," <i>Proc. Natl. Acad. Sci. USA</i> 46:461-476 (1960)						
	25	Felgner <i>et al.</i> , "Lipofection: A highly efficient, lipid-mediated DNA-transfection procedure," <i>Proc. Natl. Acad. Sci. USA</i> 84:7413-17 (1987)						
	26	Happ <i>et al.</i> , "New Approach to the Synthesis of 2'(3')-O-Aminoacyl Oligoribonucleotides," <i>J. Org. Chem.</i> 52:5387-91 (1987)						
	27	Heckler <i>et al.</i> , "Preparation of 2'(3')-O-Acyl-pCpA Derivatives as Substrates for T4 RNA Ligase-Mediated "Chemical Aminoacylation," <i>Tetrahedron</i> 40:87-94 (1984)						
	28	Heckler <i>et al.</i> , "T4 RNA Ligase Mediated Preparation of Novel "Chemically Misacylated" tRNA ^{Pro} s," <i>Biochemistry</i> 23:1468-73 (1984)						

Examiner: /James Ketter/

Date Considered: 04/24/2007

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: AMBER-06797	Serial No.: 10/049,332
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Kenneth J. Rothschild <i>et al.</i>	
(37 CFR § 1.98(b))				Filing Date: 06/21/02	Group Art Unit: 1645
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
1/3/01	29	Hemmila, I.A., Chemical Analysis "Applications of Fluorescence in Immunoassays", (Wiley&Sons 1991) pp.138-159			
	30	Hudson, "Methodological Implications of Simultaneous Solid-Phase Peptide Synthesis: 1. Comparison of Different Coupling Procedures", <i>J. Org. Chem.</i> 53:617-624 (1988)			
	31	Ishi <i>et al.</i> , "tRNA ^{Met} gene in the leader region of the <i>nusA</i> operon in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 81:409-413 (1984)			
	32	Keller, R. C., <i>et al.</i> , "Characterization of the Resonance Energy Transfer Couple Coumarin-Bodipy and its Possible Applications in Protein-Lipid Research," <i>Biochem Biophys Res Commun</i> 207(2):508-14 (1995)			
	33	Kim, D., and Choi, C., "A Semicontinuous Prokaryotic Coupled Transcription/Translation System Using a Dialysis Membrane," <i>Biotechnol Prog</i> 12, 645-649 (1996)			
	34	Kopp <i>et al.</i> , "Chemical Amplification: Continuous Flow PCR on a Chip," <i>Science</i> 280:1046 (1998)			
	35	Kozak, "Point Mutations Define a Sequence Flanking the AUG Initiator Codon that Modulates Translation by Eukaryotic Ribosomes," <i>Cell</i> 44:283-292 (1986)			
	36	Krieg <i>et al.</i> , "Photocrosslinking of the signal sequence of nascent preprolactin to the 54-kilodalton polypeptide of the signal recognition particle," <i>Proc. Natl. Acad. Sci. USA</i> 83:8604-08 (1986)			
	37	Kudlicki, W. <i>et al.</i> , "Chaperone-dependent Folding and Activation of Ribosome-bound Nascent Rhodanese," <i>J Mol Biol</i> 244(3):319-31 (1994)			
	38	Laemmli, U. K., "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4," <i>Nature</i> 227:680-685 (1970)			
	39	Marmur and Lane, "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Biological Studies," <i>Proc. Natl. Acad. Sci. USA</i> 46:453-461 (1960)			
	40	<i>Molecular Cell Biology</i> (J. Darnell <i>et al.</i> editors, Scientific American Books, N.Y., N.Y. 1991) pp. 119-132			
	41	Neu and Heppel, "Nucleotide Sequence Analysis of Polyribonucleotides by Means of Periodate Oxidation Followed by Cleavage with an Amine," <i>J. Biol. Chem.</i> 239:2927-34 (1964)			
	42	Noren <i>et al.</i> , "A General Method for Site-Specific Incorporation of Unnatural Amino Acids into Proteins," <i>Science</i> 244:182-188 (1989)			
	43	Odom <i>et al.</i> , "In Vitro engineering using acylderivatized tRNAs," <i>Methods Mol Biol.</i> , Vol. 77: In <i>Protein synthesis: Methods and Protocols</i> , PP.93-103, (Edited by R. Martin, Humana Press, Totowa, NJ.) (1998)			
	44	Olejnik, <i>et al.</i> , "Photocleavable biotin derivatives: A versatile approach for the isolation of biomolecules," <i>Proc. Natl Acad. Sci. U S A</i> , 92: 7590-4 (1995)			
	45	Olejnik <i>et al.</i> , "Photocleavable Affinity Tags for Isolation and Detection of Biomolecules," <i>Methods Enzymol.</i> , 291:135-54 (1998)			
	46	Patchornik <i>et al.</i> , "Photosensitive Protecting Groups," <i>J. Am. Chem. Soc.</i> 92:6333-35 (1970)			
	47	Pavlopoulos, <i>et al.</i> , "Laser action from a tetramethylpyrromethene-BF ₃ .sub.2 complex," <i>APP. OPTICS</i> 27:4998-4999 (1988)			
	48	Pfahler <i>et al.</i> , "Liquid Transport in Micron and Submicron Channels," <i>Sensors and Actuators</i> , A21-A23, pp. 431-434 (1990)			
	49	Pillai, "Photoremovable Protecting Groups in Organic Synthesis," <i>Synthesis</i> 1-26 (1980)			
	50	Powell <i>et al.</i> , "Molecular Diagnosis of Familial Adenomatous Polyposis," <i>N. Engl. J. Med.</i> 329:1982-87 (1993)			
	51	Pratt, "Coupled Transcription-Translation in Prokaryotic Cell-Free System," (<i>Transcription and Translation</i> , B.D. Hames and S.J. Higgins, Editors, p. 179-209, IRL Press, Oxford, 1984)			
	52	Promega Technical Bulletin No. 182; tRNA ^{nono} ™: Non-radioactive Translation Detection System, Sept. 1993			
	53	Reis, R. C., <i>et al.</i> , "A novel methodology for the investigation of intracellular proteolytic processing in intact cells," <i>Eur J Cell Biol</i> 75(2), 192-7 (1998)			
	54	Rowan and Bodmer, "Introduction of a <i>myc</i> Reporter Tag to Improve the Quality of Mutation Detection Using the Protein Truncation Test," <i>Human Mutation</i> 9:172-176 (1997)			
	55	Sampson and Uhlenbeck, "Biochemical and physical characterization of an unmodified yeast phenylalanine transfer RNA transcribed <i>in vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 85:1033-37 (1988)			
	56	Seong and RajBhandary, "Escherichia coli formylmethionine tRNA: Mutations in ^{GGG} sequence conserved in anticodon stem of initiator tRNAs affect initiation of protein synthesis and conformation of anticodon loop," <i>Proc. Natl. Acad. Sci. USA</i> 84:334-338 (1987)			
	57	Spirin <i>et al.</i> , "A Continuous Cell-Free Translation System Capable of Producing Polypeptides in High Yield," <i>Sci.</i> 242:1162-64 (1988)			
	58	Stephens, "High-Resolution Preparative SDS-Polyacrylamide Gel Electrophoresis: Fluorescent Visualization and Electrophoretic Euliton-Concentration of Protein Bands", <i>Anal Biochem</i> 65:369-79 (1975)			
	59	Treibs & Kreuzer, "Difluorboryl-komplexe von di- und tripyrrolmethenen," <i>Liebigs Ann. Chem.</i> 718:208-223 (1968)			
Examiner:		James Ketter		Date Considered: 04/24/2007	
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: AMBER-06797

Serial No.: 10/049,332

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)

(37 CFR § 1.98(b))

Applicant: Kenneth J. Rothschild *et al.*

Filing Date: 06/21/02

Group Art Unit: 1645

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

/JK/	60	Turcatti <i>et al.</i> , "Probing the Structure and Function of the Tachykinin Neurokinin-2 Receptor through Biosynthetic Incorporation of Fluorescent Amino Acids at Specific Sites," <i>J Biol Chem</i> 271(33):19991-8 (1996)
	61	Van Lintel <i>et al.</i> , "A Piezoelectric Micropump Based on Micromachining of Silicon," <i>Sensors and Actuators</i> 15:153-167 (1988)
	62	Varshney <i>et al.</i> , "Initiation of protein synthesis from a termination codon," <i>Proc Natl Acad Sci U S A</i> 87(4):1586-90 (1990)
	63	Varshney <i>et al.</i> , "Direct Analysis of Aminoacylation Levels of tRNA _a in Vivo," <i>J. Biol. Chem.</i> 266: 24712-24718 (1991)
	64	Vecesey-Semjen <i>et al.</i> , "The Staphylococcal α -Toxin Pore Has a Flexible Conformation," <i>Biochemistry</i> 38 4296-4302 (1999)
	65	Walker, B. <i>et al.</i> , "Functional Expression of the α -Hemolysin of Staphylococcus aureus in Intact Escherichia coli and in Cell Lysates," <i>J. Biol. Chem.</i> 267:10902-10909 (1992)
	66	Wories <i>et al.</i> , "A novel water-soluble fluorescent probe: Synthesis, luminescence and biological properties of the sodium salt of the 4-sulfonato-3,3', 5'5-tetramethyl-2,2'-pyromethen-1,1'-BF ₂ complex," <i>Recl. Trav. Chim. PAYSBAS</i> 104, 288 (1985)
	67	Yao S <i>et al.</i> , "SDS capillary gel electrophoresis of proteins in microfabricated channels," <i>PNAS</i> 96:5372-5377 (1999)
	68	
	69	
	70	
	71	
	72	
	73	
	74	
	75	
	76	
	77	
	78	
	79	
	80	
	81	
	82	
	83	
	84	
	85	

Examiner:

/James Ketter/

Date Considered:

4/24/2007

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.